

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number:

Luminaire Tested: SQ4-PC3-075U-125D-927-1D-UNV-STD-W-4

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-125D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

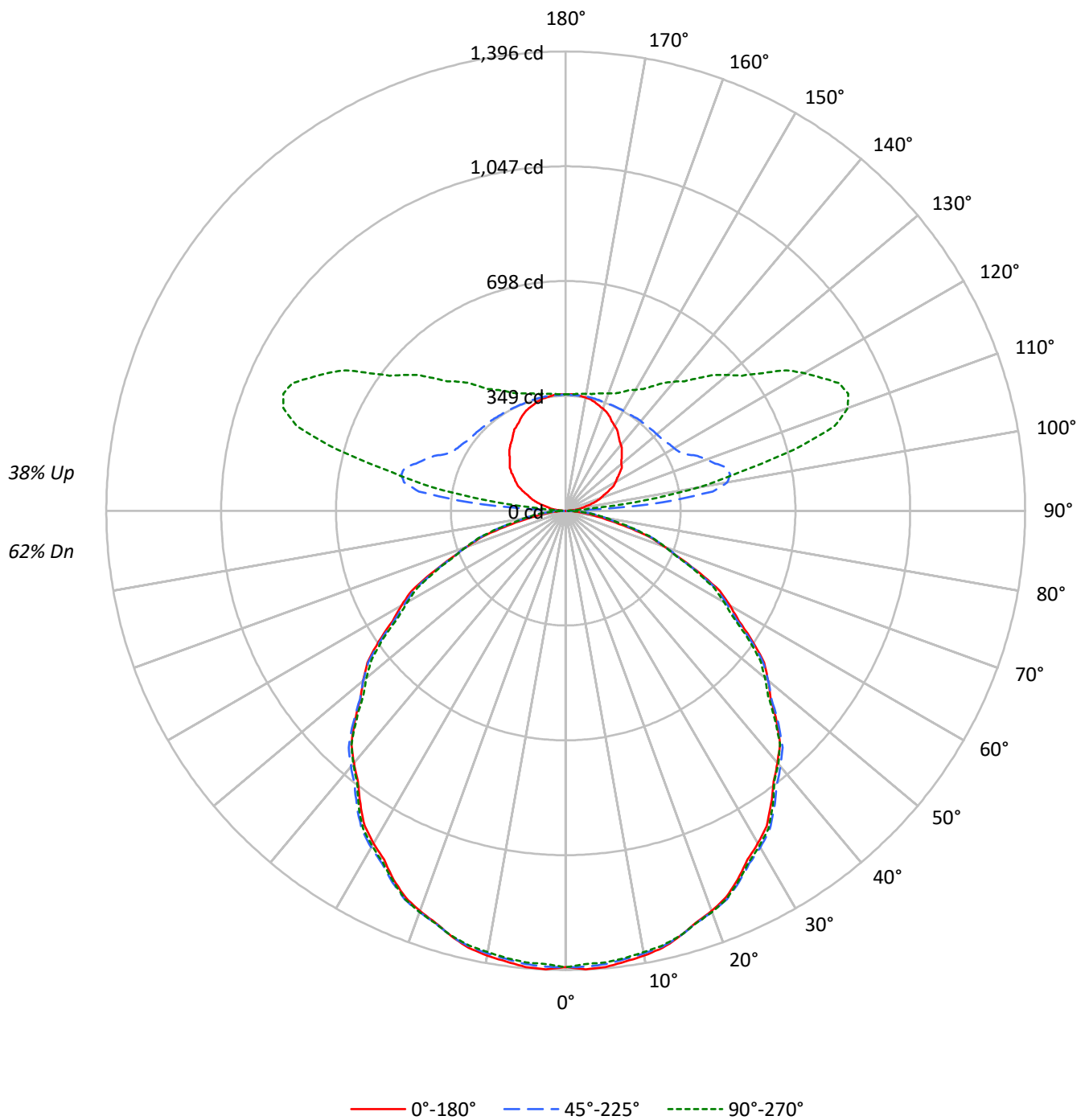
Lumens per Lamp: N/A
Luminaire Lumens: 6092.5 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	58	57
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48
3	84	74	66	60	78	69	63	57	61	56	52	54	50	46	46	43	41
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12800	12800	12800
5°	12897	12813	12766
10°	12865	12805	12768
15°	12797	12797	12785
20°	12714	12751	12751
25°	12594	12684	12646
30°	12440	12590	12536
35°	12254	12442	12356
40°	12052	12222	12098
45°	11833	11917	11733
50°	11524	11524	11339
55°	11158	11014	10848
60°	10619	10405	10239
65°	9815	9619	9536
70°	8594	8662	8629
75°	6916	7646	7693
80°	4915	6482	6551
85°	2996	5441	5441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 11917 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	2.2
10°-20°	376.8	6.2
20°-30°	570.6	9.4
30°-40°	684.1	11.2
40°-50°	697.5	11.4
50°-60°	608.9	10.0
60°-70°	435.9	7.2
70°-80°	224.5	3.7
80°-90°	57.7	0.9
90°-100°	166.9	2.7
100°-110°	459.2	7.5
110°-120°	473.9	7.8
120°-130°	379.7	6.2
130°-140°	298.2	4.9
140°-150°	228.6	3.8
150°-160°	164.3	2.7
160°-170°	100.5	1.6
170°-180°	33.9	0.6
0°-30°	1078.7	17.7
0°-40°	1762.7	28.9
0°-60°	3069.1	50.4
0°-90°	3787.3	62.2
90°-120°	1100.0	18.1
90°-150°	2006.5	32.9
90°-180°	2305.0	37.8
0°-180°	6092.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1392	1379	1384	1380	1378	132
15°	1340	1328	1340	1340	1338	378
25°	1237	1228	1246	1242	1242	569
35°	1088	1086	1105	1097	1097	680
45°	907	904	913	902	899	698
55°	694	685	685	674	674	618
65°	450	440	441	437	437	445
75°	194	203	214	216	216	210
85°	28	43	51	53	51	38
90°	1	3	5	7	7	3
95°	25	91	295	126	81	26
105°	82	126	506	770	719	87
115°	145	177	406	808	917	143
125°	200	228	368	623	730	179
135°	242	268	358	504	570	186
145°	279	298	352	429	462	175
155°	316	326	350	386	397	145
165°	342	346	352	366	368	96
175°	354	355	352	357	356	34
180°	354	354	354	354	354	

TEST NUMBER:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.3	1387.3	1387.3	1387.3	1387.3
2.5°	1395.6	1383.5	1387.3	1384.2	1379.1
5°	1392.5	1378.7	1383.5	1379.6	1378.4
7.5°	1382.5	1368.7	1375.0	1372.4	1371.2
10°	1373.2	1359.4	1366.8	1364.2	1362.9
12.5°	1360.9	1348.1	1356.5	1353.9	1353.7
15°	1339.8	1328.5	1339.8	1339.8	1338.5
17.5°	1313.4	1303.1	1315.2	1315.9	1315.2
20°	1294.9	1283.6	1298.7	1297.5	1298.7
22.5°	1272.3	1263.0	1279.2	1275.9	1277.1
25°	1237.1	1228.3	1246.0	1242.2	1242.2
27.5°	1195.4	1189.2	1208.5	1204.4	1204.4
30°	1167.7	1161.4	1181.8	1176.7	1176.7
32.5°	1136.9	1132.6	1152.0	1145.8	1145.8
35°	1088.0	1085.5	1104.7	1097.0	1097.0
37.5°	1037.7	1035.4	1052.8	1043.5	1040.5
40°	1000.7	999.4	1014.8	1004.5	1004.5
42.5°	963.7	962.4	975.8	963.4	963.4
45°	906.9	904.4	913.3	901.7	899.2
47.5°	845.0	842.5	848.1	835.5	834.2
50°	802.9	800.4	802.9	791.3	790.0
52.5°	759.7	755.2	755.6	744.0	743.8
55°	693.7	684.9	684.7	674.4	674.4
57.5°	623.8	612.2	613.3	604.5	603.2
60°	575.5	562.9	563.9	556.2	554.9
62.5°	528.2	513.7	516.7	507.9	507.7
65°	449.6	439.6	440.6	436.8	436.8
67.5°	374.1	364.8	371.5	368.4	368.2
70°	318.6	312.3	321.1	321.1	319.9
72.5°	267.2	266.9	278.0	278.0	278.8
75°	194.0	202.8	214.5	215.8	215.8
77.5°	129.5	145.1	158.0	158.5	158.3
80°	92.5	110.1	122.0	124.6	123.3
82.5°	62.7	81.3	91.2	93.7	92.5
85°	28.3	43.3	51.4	52.6	51.4
87.5°	8.4	17.9	21.6	21.9	19.9
90°	0.8	3.0	5.3	6.8	6.8
92.5°	10.4	44.4	76.9	29.5	24.2
95°	24.8	91.1	295.1	126.2	80.6
97.5°	40.5	101.0	450.4	347.0	244.8
100°	51.9	107.2	499.2	503.8	411.1
102.5°	62.8	114.5	511.8	625.1	540.0
105°	82.1	126.2	505.9	770.5	719.0
107.5°	100.4	140.8	477.2	841.8	857.1
110°	113.7	150.5	455.5	859.5	912.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125.7	161.4	433.8	848.1	928.8
115°	145.3	177.0	405.8	808.1	917.0
117.5°	164.0	193.1	388.0	751.9	875.1
120°	175.4	203.4	380.2	709.8	837.2
122.5°	185.7	213.6	374.8	673.0	793.8
125°	200.3	228.2	368.2	622.8	729.5
127.5°	214.1	240.8	363.8	580.9	674.6
130°	221.3	248.6	361.4	556.1	641.5
132.5°	229.8	257.0	359.6	534.2	611.3
135°	241.7	268.2	357.6	503.7	569.9
137.5°	252.8	277.4	356.0	479.0	533.6
140°	261.2	284.1	355.4	462.6	512.0
142.5°	268.5	289.5	354.2	448.0	490.3
145°	279.3	298.5	352.3	429.1	462.3
147.5°	290.9	307.4	351.4	412.4	438.9
150°	298.1	312.9	350.8	403.3	423.9
152.5°	304.8	318.3	350.2	395.3	412.4
155°	316.2	326.5	350.1	385.7	396.8
157.5°	324.5	332.9	350.1	377.8	385.5
160°	330.5	337.1	350.1	373.6	379.5
162.5°	335.3	340.8	350.7	369.9	374.6
165°	341.8	346.2	351.6	365.9	368.2
167.5°	346.3	349.7	352.3	362.6	363.2
170°	349.3	351.5	352.3	361.4	361.4
172.5°	351.7	352.8	352.3	359.6	359.0
175°	353.9	354.6	352.3	356.8	356.1
177.5°	354.5	354.5	352.0	355.6	354.5
180°	353.9	353.9	353.9	353.9	353.9

(END OF REPORT)